

Major Storm System Late Tuesday into Wednesday



What Has Changed?

- **Flood Watch** expanded from NE NJ and part of Lower Hudson Valley to include all of Lower Hudson Valley, NYC, Long Island and Southern CT Tuesday Night into Wednesday.
- **Flood Watch** 6PM Tuesday to 6PM Wednesday for much of our area, except for NYC and Long Island, 6PM Tuesday to 12PM Wednesday.
- **High Wind Watch** expanded from Kings, Queens, Nassau and Suffolk Counties to now include Staten Island as well from 6PM Tuesday to 6AM Wednesday.
- **Storm Watch** expanded to include all waters surrounding Long Island from 6PM Tuesday to 6AM Wednesday.



POTENTIAL
HAZARDS & IMPACTS

Flooding Rain Potential

- **Total Rainfall Forecast:** 2-4" with locally higher amounts possible late Tue into Early Wed.
- **Significant River Flooding Potential:**
 - Widespread minor to moderate river flooding is likely Tuesday Night into Wednesday, particularly for the quick responding NE NJ, Lower Hudson Valley and potentially Southern CT basins. Potential for major flooding along a few rivers if high end of rainfall forecasts realized. Linger flooding of rivers and streams quite possible into the day Wednesday.
- **Potential for flash flooding Tuesday night in urban and poor drainage areas.**
- Factors that may compound flooding are higher than normal streamflows and soil moisture, heavy rainfall/runoff coinciding with high tide Wed AM, and residual snow pack.

Strong to Damaging Wind Potential

- 40 to 50 mph wind gusts across much of the region are possible.
- Gusts 50 to 60 mph are possible along the coast. Some locally higher gusts also possible.

Moderate to locally Major Coastal Flooding Potential

- Widespread moderate flooding (inundation 2 to 3 ft above ground) potential with the Wednesday morning high tide.
- Locally major flooding (inundation 3+ ft above ground level) possible, particularly along southern bays of Long Island.

Major Shoreline Impact Potential

- Widespread dune erosion with scattered overwashes. Localized dune inundation/breaches possible where dunes have been compromised by earlier storms.
- Around 15 to 20 ft breaking surf.

Marine:

- Storm conditions possible on waters surrounding Long Island Tuesday night. 20 ft seas on the ocean with 5-8 ft on LI Sound possible.

FORECAST
CHALLENGES

- Expansion of the High Wind Watch possible in subsequent forecasts.
- Location of the heaviest rainfall amounts.
- Timing of highest surge could occur before high tide Wednesday morning, which may somewhat limit coastal flooding impacts.
- The forecast will continue to be refined into early Tuesday.

Strong Winds Expected Tuesday Night



New York, NY
WEATHER FORECAST OFFICE

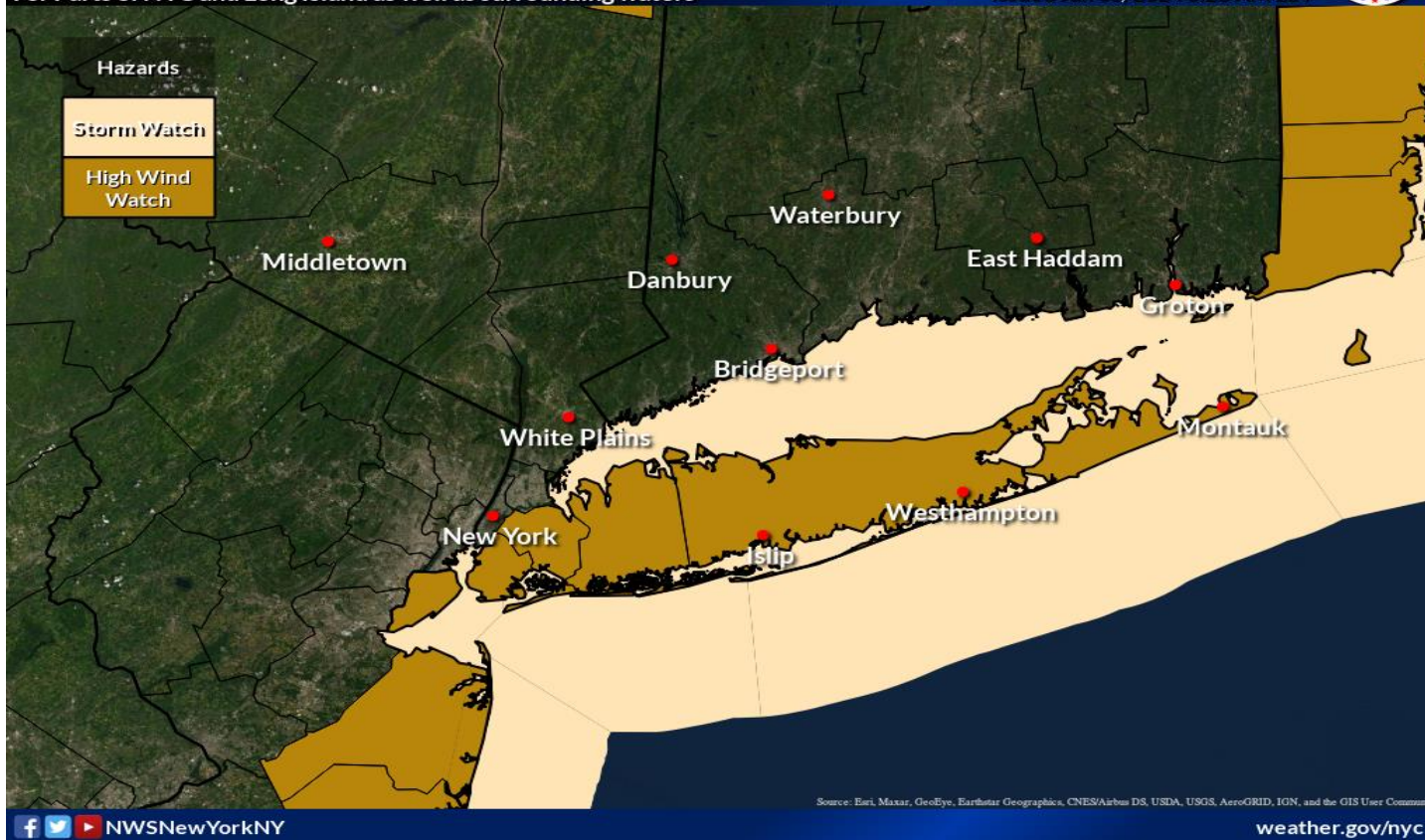
Strong Wind Headlines Tuesday Night

Weather Forecast Office
New York, NY

Issued Jan 08, 2024 5:28 AM EST



For Parts of NYC and Long Island as well as surrounding waters



- Max Sustained Winds of around 30 to 40 mph.
- Max Wind Gusts of around 60 mph.
- Locally higher wind gusts possible.
- Power outages and downed trees possible.

NWSNewYorkNY

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

weather.gov/nyc

ISSUED: 1/8/2024 6:45 AM

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Storm Total Rainfall Forecast



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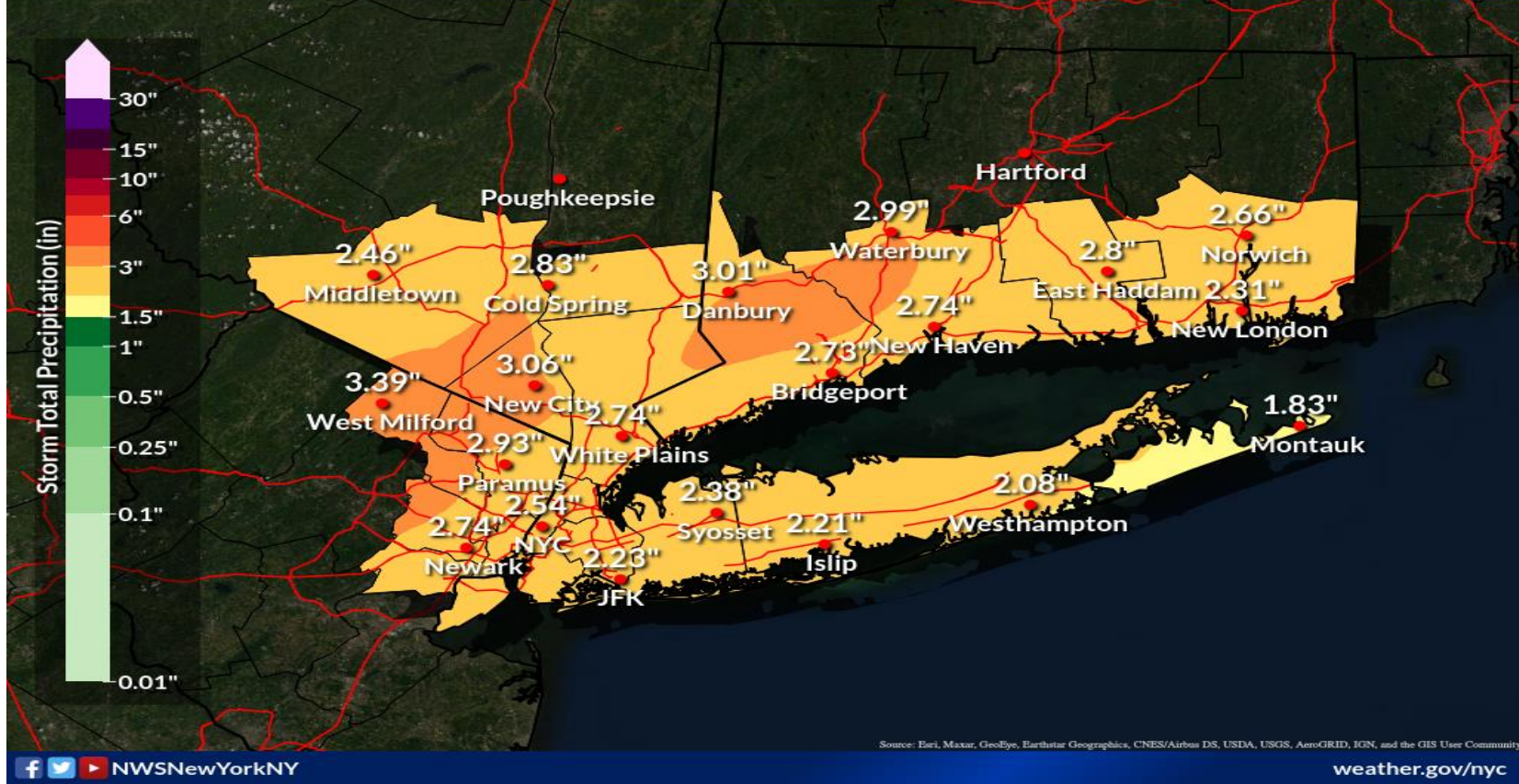


Expected Rainfall/Liquid Equivalent - Official NWS Forecast

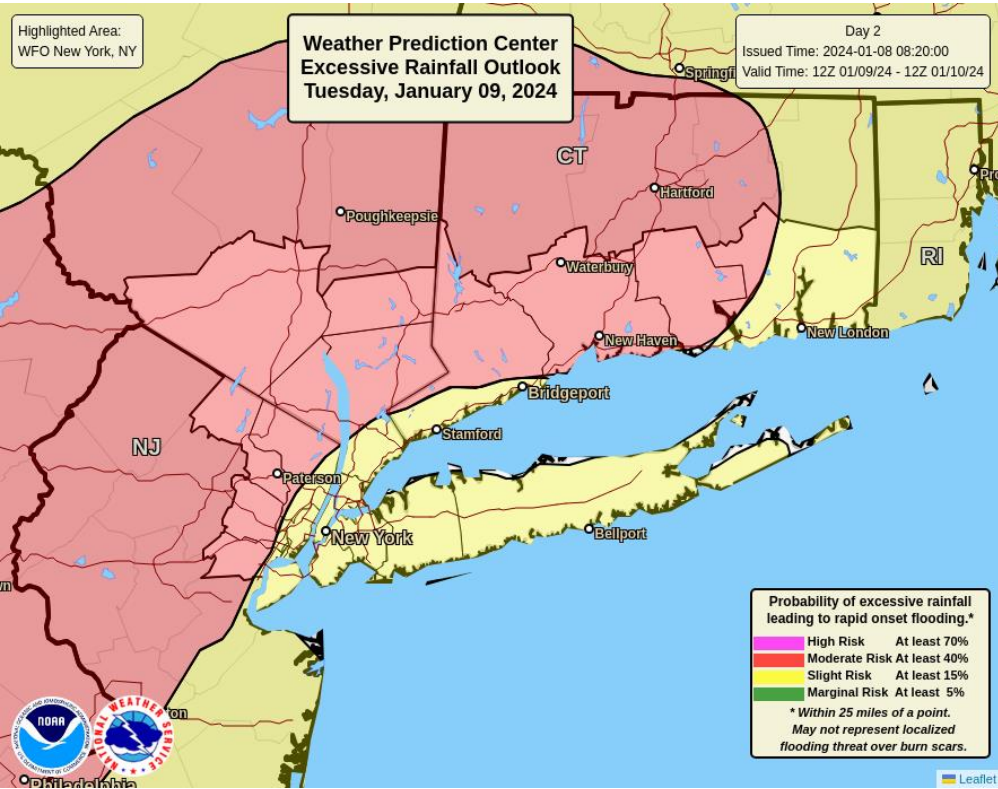
Weather Forecast Office
New York, NY

Valid Tue 1:00PM through Wed 1:00PM EST

Issued Jan 08, 2024 4:24 AM EST



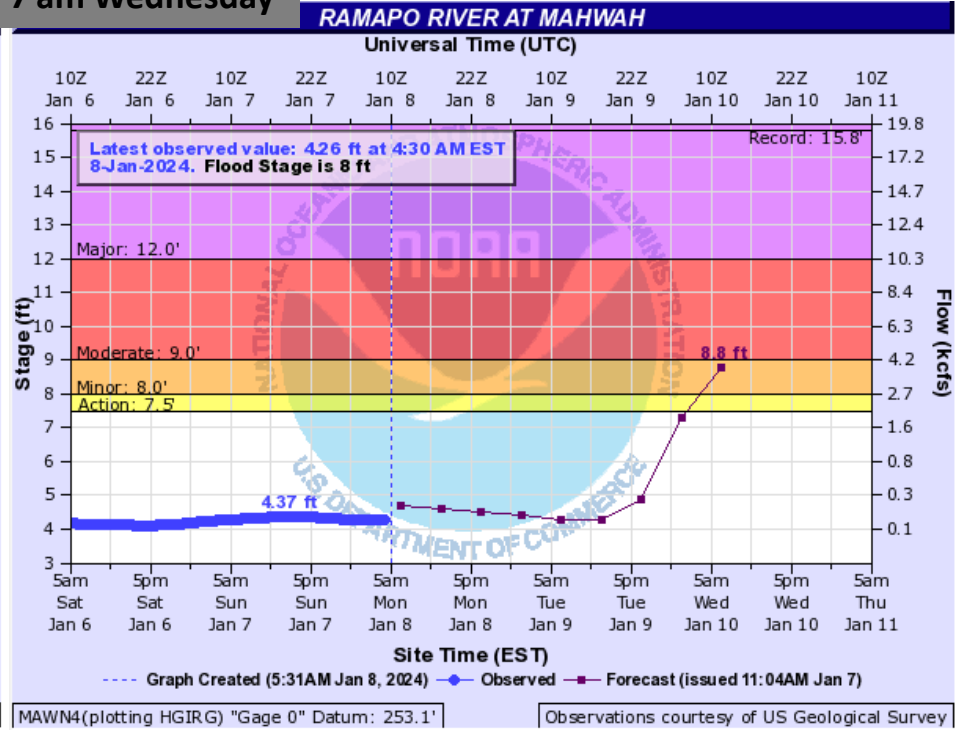
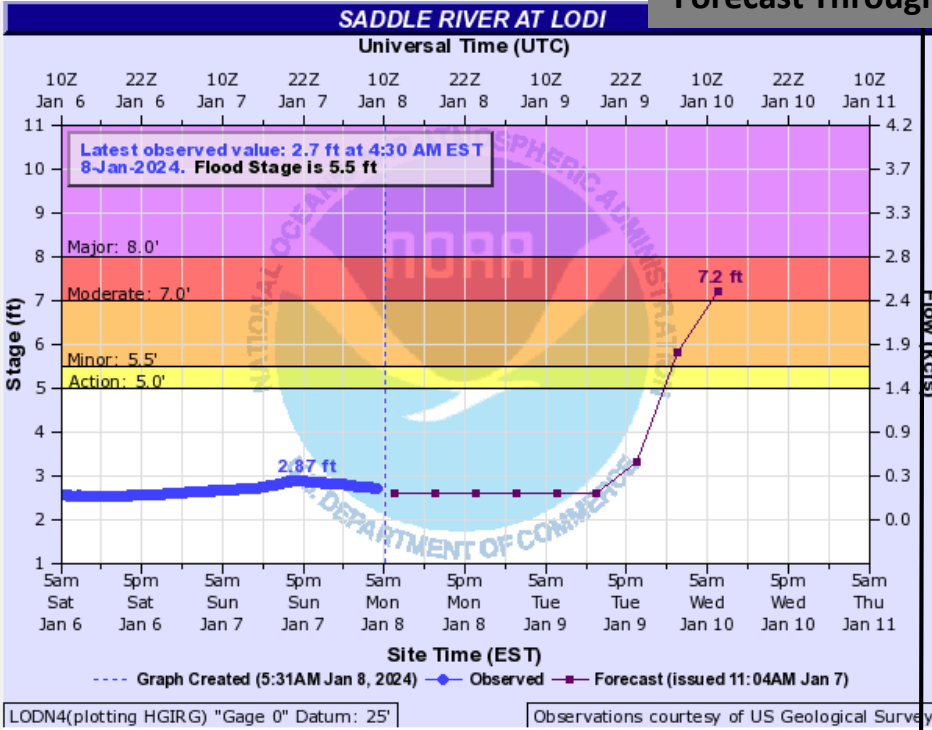
Excessive Rainfall/Flash Flood Outlook



Understanding WPC Excessive Rainfall Risk Categories				
No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
@NWSWPC				
Flash flooding near me?	Flash Flooding			
	NO Flash Flooding			
WEATHER PREDICTION CENTER				

Northeast New Jersey River Flooding Forecast

Forecast Through 7 am Wednesday



Reasonable worst case of major flooding if higher end of rainfall scenario is realized

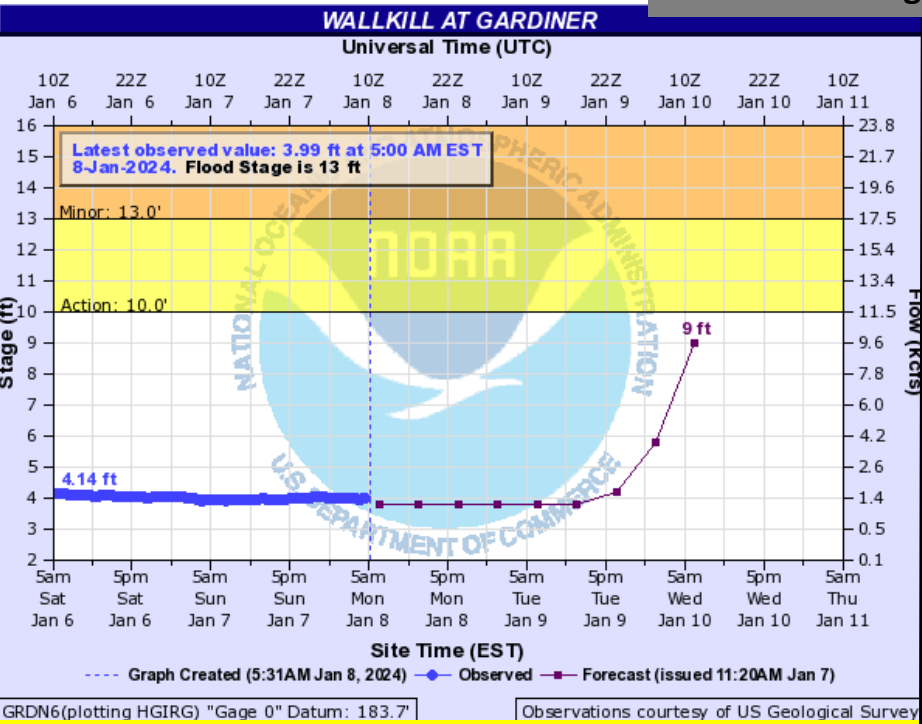
Reasonable worst case of moderate flooding if higher end of rainfall scenario is realized

Lower Hudson Valley/Southern CT River Flooding Forecast

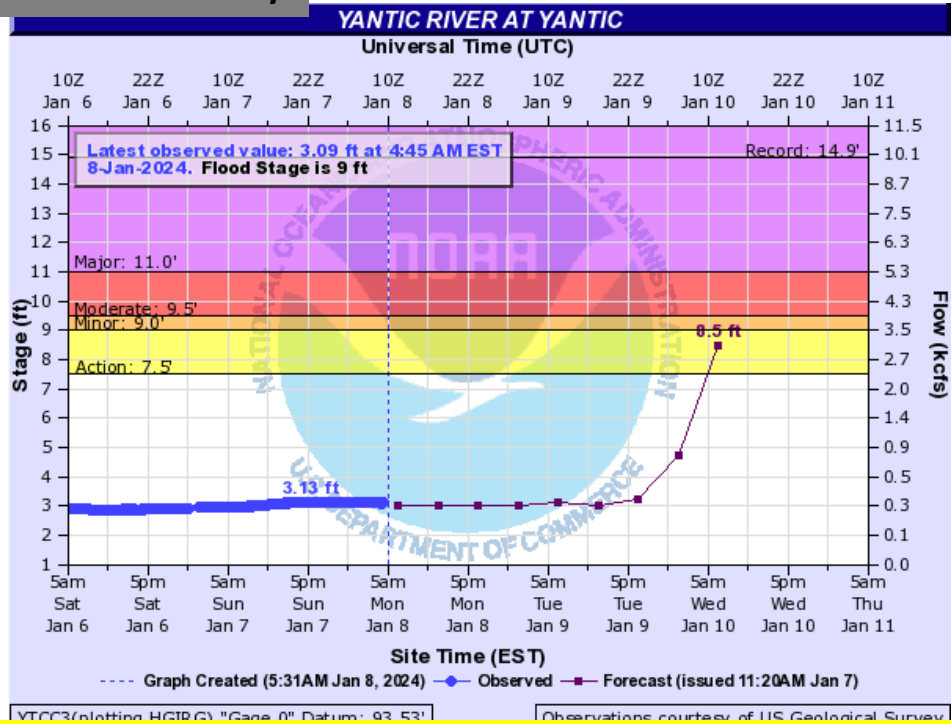


New York, NY
WEATHER FORECAST OFFICE

Forecast Through 7 am Wednesday



Reasonable worst case of minor to moderate flooding if higher end of rainfall scenario is realized



Reasonable worst case of moderate flooding if higher end of rainfall scenario is realized

Max Wind and Max Wind Gust Forecast Tue Night - Early Wed



New York, NY
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Maximum Sustained Winds

Between 6PM Tuesday and 6AM Wednesday

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Maximum Wind Gusts

Between 6PM Tuesday and 6AM Wednesday

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